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United States General Accounting Office

REGIONAL OFFICE

ROOM 409, U.S. CUSTOMHOUSE, 610 SOUTH CANAL STREET CHICAGO, ILLINOIS 60607



SEP 8 1971

Mr. F. R. Cordon, Vice President Sundstrand Corporation 4747 Harrison Avenue Rockford, Illinois 61101

Dear Mr. Cordon:

Enclosed is a copy of our report to the Commander, Naval Air Systems Command, Washington, D.C., on the pricing of selected negotiated contracts for F4 and A7 constant speed drives awarded to Sundstrand Aviation, Sundstrand Corporation.

The information contained in this report may ultimately be included in a report to the Congress. Therefore, we would appreciate receiving a written reply within 30 days expressing your views and comments on the matters discussed in the enclosed report.

Very truly yours,

M. R. Wolfson Regional Manager

Enclosure

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CHICAGO, ILLINOIS 60607

Rear Admiral T. J. Walker Commander, Naval Air Systems Command Department of the Navy Washington, D.C. 20360

Dear Admiral Walker:

We recently completed a review of the pricing and administration of selected negotiated firm fixed-price contracts totaling about \$24 million for constant speed drives awarded on a noncompetitive basis to Sundstrand Aviation Division, Sundstrand Corporation, Rockford, Illinois, by the Naval Air Systems Command, Washington, D.C.

Our examination was part of a continuing review of the implementation of the provisions of Public Law 87-653 as provided for by the Armed Services Procurement Regulations. In this regard, our examination was directed primarily toward ascertaining the reasonableness of estimated costs used to negotiate contract prices in relation to cost or pricing data available to the contractor at the time of negotiation.

The contracts discussed in this report are shown in appendix I. These contracts include a defective pricing clause that provides for decreasing the contract price if the Government determines that the price was significantly increased because cost or pricing data submitted were not accurate, complete, or current.

The Defense Contract Administration Services Office (DCASO), Rockford, Illinois, and the Chicago Branch Office of the Defense Contract Audit Agency (DCAA) are responsible for contract administration and auditing activities, respectively. Prior to negotiation of prices DCASO performed a technical evaluation and price analysis and DCAA performed an audit of the contractor's price proposals. In addition, DCAA performed a post-award audit on contract -0083, but did not question any of the proposed costs.

BACKGROUND

Sundstrand Aviation Division is primarily engaged in the design, development, and production of constant speed drives and related spare parts for aircraft electrical systems. Other activities include underwater propulsion systems, vehicular transmission systems, and missile and space power systems.

The Division maintains a job order cost system to accumulate material, labor, and related overhead costs incurred in the production of component parts. When a work-in-process work order is completed the quantity and work order costs of the fabricated item are transferred to finished parts inventory. From finished parts inventory, parts or subassemblies are transferred, on a first-in, first-out basis, to final assembly work orders on which the contractor accumulates all material and labor costs. These historical costs generally form the basis for the contractor's proposed material and labor.

SUMMARY OF FINDINGS

We found that contract prices were higher by \$1,068,000 than that indicated by current information available. Our findings, which are discussed below, are summarized by contract in appendix II.

Contractor's mondisclosure of: Difference in production costs for the F4B and F4C drive Pension and insurance overaccruals	\$	106,000 668,000
Contractor's use of noncurrent data for changes from buy to make adjustments		106,000
Contracting officer's improper applica- tion of labor and burden rates	-entrager	188,000
Total	\$1	,068,000

NONDISCLOSURE OF DIFFERENCE IN PRODUCTION COSTS FOR THE F4B AND F4C DRIVE

Our review indicated that the negotiated prices for contracts -0176, -0083, and -0174 were higher by about \$106,000 than that indicated by actual cost data, as shown in appendix III, primarily because the contractor did not disclose the difference in production costs for the F4B and F4C drives.

Contracts for the F4B and F4C drives have been consistently proposed and negotiated at one unit price. The contractor's price proposals were based on historical material costs, adjusted for price increases, and production labor hours shown on completed work orders. In its proposals, Sundstrand specifically identified the work orders used and the related material costs, labor hours, and projected hourly labor rates. Although Sundstrand experienced different costs to manufacture each type of drive, this was not apparent from the proposals because Sundstrand did not identify work orders by type of drive.

We reviewed the work orders identified in Sundstrand's proposals and found differences between recorded material costs and labor hours for the two types of drives. For example, the work orders listed by the contractor in its proposal and used by the contracting officer to establish a negotiation base for contracts -0176, -0083, and -0174 showed the following cost differences between the drives.

Contract	<u>Drive type</u>	Direct material	Direct Hours	<u>labor</u> <u>Cost</u>
-0176	F4B F4C	\$ 904 900	150 151	\$516 <u>519</u>
Cost	difference	\$4		\$(3)
-0083	F4B F4C	\$ 904 827	166 166	\$606 <u>606</u>
Cost	difference	\$ <u>77</u>		\$-0-
-0174	F4B F4C	\$1,025 <u>861</u>	197 191	\$930 <u>902</u>
Cost	difference	\$ <u>164</u>		\$ 28

The effect of these cost differences in the contract prices is shown on appendix III.

Further, our review of 4 year's production covering about 100 work orders and 6,000 units showed that costs for the F4B drive were higher than the F4C by an average of \$142 in material costs and 5 hours of labor. Also, our review of Sundstrand's proposals and the Government's evaluations showed that the quantity ratios, by type of drive, were not consistent with the contract ratio. The varying quantity ratios are illustated by Sundstrand's March 1968 proposal for definitizing contract -0083 and the Government's evaluations thereof as shown below.

	Type of	drive
	F4B	F4C
Contract ratio	30	70
Sundstrand's proposal	60	40
DCAA evaluation	38	62
DCASO evaluation	6	94
Navy negotiation base	53	47

As shown, varying ratios, none of which agreed with the contract ratio, were used in evaluating Sundstrand's proposal. Similarly, the base used by the Navy was disproportionately weighted with the higher cost F4B drives. We attribute the different ratios to the judgmental selection of work orders by Government officials for use in determining what might constitute a reasonable price without evaluating the accuracy, currency, and completeness of the data submitted by the contractor.

We were informed by the DCASO Administrative Contracting Officer (ACO) and price analyst that they were aware of some technical differences between the two drives but they had been assured by a DCASO engineer that the differences were insignificant; accordingly, they considered the drives to be the same for pricing purposes.

DCAA officials responsible for pre-award audits at Sundstrand informed us that they were unaware of any cost difference between the drives until we brought this matter to their attention. DCAA performed a post-award audit on contract -0083 and found no defective pricing.

We discussed the cost difference with contractor officials and furnished them with copies of our workpapers showing our computations. Contractor officials informed us that it was common

knowledge at Sundstrand that there was a cost difference between the F4B and F4C drive and that this information had been furnished to the Navy. These officials stated that Sundstrand has consistently used the latest F4B/C work order history in its proposals and has always negotiated one unit price for both types of drive. This method, according to Sundstrand officials, has been accepted by the Government without question.

Conclusion

We believe that the prices negotiated for contracts -0176, -0083, and -0174 were higher than that indicated by currently available information. Had Sundstrand disclosed, in its proposals, costs by type of drive, the Navy would have been in a position to negotiate lower prices totaling at least \$106,000.

PENSION AND INSURANCE OVERACCRUALS

The burden rates proposed and negotiated for contracts -0083 and -0088 contained pension and insurance overaccruals which we estimate increased contract prices by at least \$668,000 as shown in appendix IV. Our review of the pension and insurance accounts indicated that data was available to the contractor which should have been disclosed and used to determine appropriate adjustments to the burden expense pools at the time of contract negotiations.

Historically, the corporate office (1) determined the bases for pension and insurance accruals at the beginning of each year, (2) recorded interim adjustments to the accruals, and (3) recorded final adjustments for the accruals at the end of each year. The corporate office either distributed the final adjustments to the divisions or maintained them on corporate books. In either case, Sundstrand did not consider the accrual adjustments in the burden rates proposed for contracts -0083 and -0088.

The divisions accrue pension expenses monthly and pay once a year, after the corporate office had determined the needs of the various pension funds. For the years 1967 through 1970, the corporate office determined that the needs of the pension funds were significantly lower than the amounts accrued.

The divisions are billed monthly and pay to the corporate office their share of the total insurance accruals. Since the corporate office paid into the insurance funds only those amounts considered necessary to meet actual expenses, large reserve balances accumulated in the accounts.

Contracts -0083 and -0088 were negotiated in October 1968. The records of negotiation show that the Navy negotiator relied on actual burden rates, as submitted by the contractor. Included in the material handling, manufacturing burden, and operating expense pools were the unadjusted accrued expenses for pensions and insurance. Data available to the contractor, which we believe should have been disclosed to the Government and considered in negotiations includes:

- 1. A corporate adjustment, as of June 30, 1968, reducing pension and insurance expenses by \$1.5 million;
- 2. Large reserves in the health and life insurance accounts;
- 3. Quarterly balance sheet reports for the various pension funds; and
- 4. Significant reductions of pension and insurance expenses at year-end 1967.

We computed rates for a 12-month period, giving consideration to the adjustments made at year-end 1967 and the accruals made for a period of 1968. The following table illustrates the proposed, negotiated and GAO calculated rates.

	Proposed as actual	Negotiated	GAO
Material handling	6.4%	5.9%	5.7%
Manufacturing burden	375.4%	366.0%	345.0%
Applied production	10.6%	10.1%	10.1%
Inventory loss	2.8%	2.8%	2.8%
Operating expense	27.6%	19.0%	17.9%

The reductions from proposed to negotiated rates were detailed in the records of negotiation.

DCAA became aware of the pension and insurance overaccruals in 1969 and subsequently issued two defective pricing reports to the Air Force. In April 1971, DCAA also issued one general report on the overaccruals to other Government activities doing business with Sundstrand.

The contractor contends that neither disclosure nor adjustment for the overaccruals was warranted due to the following factors:

- 1. Uncertainty of pension fund earnings which affect the amount of the company's contribution; and
- 2. The corporate reduction of pension and insurance expenses by \$1.5 million was merely an income leveling action and had no relationship to pensions or insurance.

Conclusions

We do not agree with the contractor that neither disclosure nor adjustment was warranted. We believe that had the contracting officer been aware of the overaccruals, adjustments to the burden pools might have been negotiated which would have lowered contract prices by at least \$668,000. In addition, we believe that Sundstrand should adopt a consistent procedure whereby interim or year-end corporate adjustments affecting the pension and insurance accruals are distributed to the divisions, and recorded in the related expense accounts. In this way, allocations of these expenses to Government contracts will be consistent and reasonable.

USE OF NONCURRENT DATA FOR CHANGES FROM BUY TO MAKE ADJUSTMENTS

Sundstrand proposed a change in pricing of four parts required for the drives produced under contracts -0083 and -0088. The proposals indicated that these parts were previously purchased and that they would be manufactured in-house for these contracts. Our review indicated that the cost data supporting the proposed changes were not representative of anticipated costs and that contract prices were about \$106,000 higher than indicated by currently available information, as shown in appendix V. Details of the adjustments relating to the changes from buy to make, by contract, are discussed below.

Contract -0083

Sundstrand proposed a change from buy to make for two parts - the carrier shaft (part number 696862) and the center plate (part number 697195A). This change, based on one work order each for

the purchased and manufactured costs, reduced proposed and negotiated material by \$177 and increased labor by 8 hours. Our analysis of the work orders showed that they were not the most current available. In addition, we found that the center plate had been manufactured; hence, a change in pricing was not warranted.

Our review showed that by utilizing the most current buy and make costs for the carrier shaft, a pricing adjustment, reducing material by \$158 and increasing labor 6 hours, would have been appropriate. Use of the more current data would have resulted in a contract price decrease of about \$36,600.

Contract -0088

Sundstrand proposed a change from buy to make for two parts — the input and output housings — part numbers 698213A and 699189, respectively. In its proposal, Sundstrand deleted the costs for these parts and, on the basis of costs from two other work orders presented by Sundstrand as representative, added \$342 for material and 24 hours for labor to the net historical base. Our analysis of more current work orders showed that \$336 material and 21 hours for labor should have been added to the net historical costs. We recognize that the more current work orders are heavily weighted with salvage and rework costs; however, had Sundstrand used the more current work orders in its proposals the contract price might have been reduced by about \$69,300.

We discussed the pricing of the changes from buy to make with DCASO and DCAA officials. DCASO officials informed us that their price analysis would include an evaluation of data submitted by Sundstrand but would not include audits of such data. DCAA officials offered no specific comments.

We also discussed the change from buy to make with contractor officials and furnished them with copies of our workpapers showing the results of our review. Contractor officials indicated that the facts were accurately presented; however, they did not concur with our conclusions.

Conclusions

We believe that the use of noncurrent data to support changes from buy to make by the contractor and its acceptance by DCASO and DCAA resulted in increased costs of about \$106,000 to the Government. Further, we believe it is incumbent upon the contractor to assure itself that costs submitted as representing changed production methods are based on current and reliable data.

CONTRACTING OFFICER'S APPLICATION OF IMPROPER LABOR AND BURDEN RATES

Our review of the Navy's record of negotiations showed that the price negotiated for contract -0176 included estimated labor and burden costs that were higher than indicated by current information available. The record shows that, in arriving at the negotiated price, the Navy negotiators used hourly labor rates and burden rates that were applicable to the period of delivery instead of the period of production. We believe that the negotiator's failure to use the appropriate labor and overhead rates in negotiations may have resulted in increased costs of about \$188,000 as shown in appendix VI.

Contract -0176 provided for delivery of 1,203 drives, 55 percent in 1967 and 45 percent in 1968. The Navy's record of negotiations states that the negotiated rates applicable to production of the drives are based on composites of bidding rates negotiated by the Administrative Contracting Officer for each of calendar years 1967 and 1968 adjusted to reflect delivery of 55 percent in 1967 and 45 percent in 1968.

We found that the contract delivery schedule required a production effort of 88 percent during 1967 and 12 percent in 1968. Therefore, we believe that the composites of ACO negotiated bidding rates should have been adjusted to properly reflect production effort.

We discussed the application of labor and burden rates on the basis of the delivery schedule with Navy officials responsible for the procurement. These officials agreed that labor and burden rates should be applied over the production period since this is when the costs are incurred. The officials could not, however, provide any explanation for applying the labor and burden rates over the period of delivery.

Conclusions

We believe that negotiated labor and burden rates should be applied over the period of production effort rather than the delivery period. Application of the rates based on the production period might have resulted in a cost decrease of about \$188,000 under contract -0176.

Recommendation

We recommend that you consider our findings, as well as any additional information, to determine whether or not the Government is legally entitled to a price adjustment with respect to these procurements.

We would appreciate a written reply within 30 days expressing your views and comments on the matters discussed herein. Our staff will be made available should you require any further details.

Copies of this report are being sent to the Comptroller of the Navy; the Director, Defense Contract Audit Agency; the Regional Manager, Defense Contract Audit Agency, Chicago; the Commander, Defense Contract Administration Services Region, Chicago; and the Vice President, Sundstrand Aviation Division, Sundstrand Corporation.

Sincerely yours,

M. R. Wolfson M. R. Wolfson Regional Manager

Enclosures

SUMMARY OF NECOTIATED CONTRACTS

INCINDED IN CVO KENIEM

	811°161°77\$				[stoT
Jul. 1967 - Apr. 1968 Jun. 1968 - May 1970 Sep. 1968 - Apr. 1971 Dec. 1970 - Jan. 1973	\$ 2,894,700 \$ 5,196,168 \$ 5,723,100	FA-B/C Drives FA-B/C Drives FA-B/C Drives	Sep. 30, 1967 Mar. 25, 1969 May 1, 1969 -	Nov. 15, 1967 0ct. 25, 1967 0ct. 25, 1967 0cc. 14, 1966	MUUOTA-TT-C-015¢ MUUOTA-E8-C-0088 MUUUTA-E8-C-0083 MOOOTA-E5-C-015¢
Delivery period	Amount (d ston)	<u>nesī</u>	Derinitization date (note a)	Award date	Contract

Annyles only to letter contracts.

boes not include ancilliary items.

Choes not include modification Nos. 11 and 17.

SUMMARY OF INCREASED

PRICES BY CONTRACT

			Increased prices	due to	
	омпр	a unique-l'actuation-co-co-transferante anti-co-co-transferante	the control of the state of the	Use of	
	G:	ondisclosure f difference n production	Nondisclosure of pension and insurance	noncurrent data for changes from	Application of improper labor and
		costs	overaccruals	buy to make	burden rates
Contract	Total	(App III)	(App IV)	(App V)	(App VI)
-0176	\$ 205,976	\$ 18,288	\$	Š. ace	\$187,688
-0083	546,435	64,582	445,256	36,597	CD9
-0088	292,388	ento	223,096	69,292	4123
-0174	23, 375		esterin de garación de l'Armany de del filmador.	giam Bermati - programi in a Politherm ii - of Filocopis	edicity of S. Discontinuous particular and the second seco
Total	\$ 1,068,174	\$106,245	\$ <u>668,352</u>	\$105,889	\$187,688

APPENDIX III Page 1

CALCULATION OF INCREASED CONTRACT PRICES DUE TO

NONDISCLOSURE OF DIFFERENCE IN PRODUCTION COSTS FOR THE F4B AND F4C DRIVE

Total increased prices	Total contract price Total GAO calculated p	Units	Contract price	Profit	Operating expense	Inventory losses	Burden variation	Applied production cost	Ind. Mfg. cost	Direct labor	Material handling	Direct material Material escalation	
\$°	price \$5,			. 478	17.08%	2.19	4.12%	14 50 80 80	323.7%	151@\$3.44	6.89%		Nego
18,288	\$5,894,700 5,876,412	1,203	\$4,900	4,395 505	3,754	3,677	3,532 145	ω Δ † δ 5 V	1,682	964 519	902	\$ 902	Negotiated te Amount
	\$3			11.47%	17.08%	2.1%	4.12%	1.50%	323, 7%	150@\$3.44	6.89%		N000-19-67-C-0176 GAO nt Rate
	\$3,523,360 \$2	722	\$4,880	4,378 502	3,739	3,662	3,517 145	3,152 365	1,670	966 516	904	\$ 904	0176 GAO analysis F4B
	\$2,353,052	CO 1	\$4,892	4,389 503	3,749	3,672	3,527 145	22 54 55 54	1,680	962	900	\$ 900	F4C
				14.0%	20.3%	4.6%		14.5%	369.2%	192@\$4.72	. 6%	7.6%	Ne got Rate
\$ 23,375	\$2,723,100 2,699,725	313	\$8,700	7,632 1,068	6,344 1,288	6,065 279	6,065	5,297 768	3,345	1,046 906	963 83	\$ 895	Negotiated Amount
				14.0%	20 . 3%	4.6%		14.5%	191@\$4./2 369.2%	197@\$4.72	8.6%	7.6%	N00019-71-C-0174
	\$109,620	12	\$9,135	8,013 1,122	6,661 1,352	6,368 293	6,368	5,562 806	3,434	1,198 930	1,103 95	\$1,025 	GAO analysis
	\$2,590,105	301	\$8,605	7,548 1,057	6,274 1,274	5,998 276	5,998	5,238 760	902 3,330	1,006	926 80	\$ 861	F4C

CALCULATION OF INCREASED CONTRACT PRICES DUE TO

NONDISCLOSURE OF DIFFERENCE IN PRODUCTION COSTS FOR THE F4B AND F4C DRIVE

Units 892 858 271 621 156	95,844 30,019 35,770 35,770	\$100 \$1 0	Profit 5,078 5,078 5,078 5,131 5,018 5,131 Profit 15.1% 766 766 15.1% 775 758 775 Escalation for 1969 qty. 3.0% - 175 3.0% - 177	Operating expense 19.0% 4,267 4,267 4,267 4,267 4,312 4,312 4,217 4,312 811 811 19.0% 819 801 819	4,102	Burden variation 4,151 4,151 4,195 4,102 4,195	Applied production cost 10.1% 3,770 3,770 3,810 3,726 3,810 Applied production cost 10.1% 381 381 10.1% 385 376 385	Ind. Wfg. cost 366.0% 2,218 2,218 2,218 2,218 2,218 2,218	986 606	Material handling 5.9% 53 53 53 5.9% 55 50 55	Direct material \$ 867 \$ 867 \$ 867 \$ 904 \$ 827 \$ 904 Material escalation 3.0% 26 26 3.0% 27 25 27	N000 ¹⁹ -68-C-0083 GAO analysis Negotiated Basic contract Modification Rate F4B F4C F4B	
	156	\$6,083	5,131 775 177	4,312 819	4 ₉ 195	4,195	3,810 385	2,218	986 606	931 55	\$ 904	F4B	
												Modifications	

Contract increase

\$64,582

CALCULATION OF INCREASED COSTS DUE TO

NONDISCLOSURE OF PENSION AND INSURANCE OVERACCRUALS

Total cost difference	Cost difference	Total negotiated Total GAO calculated	Totals	Unit selling price Ouantity	Profit Escalation 1969 Oty.		Operating expense	Inventory loss	Applied production cost		Labor Burden	Material Material handling			
-S	**************************************	\$ <u>10</u>	⊪Šî		15°17'		19.0%	? 00 %	10.1%		266.0%		Rate		
668, 352	445,256	\$10,377,150 9,931,894	\$5,212,848	5,844 892	766	5,078	4,267 811	, p. 100 100 100 100 100 100 100 100 100 100	38 28 2	3,770	606 2,218	893 53	contract	Negotiated	
			\$5,164,302	6,019 858	766 175	5,078	4,267 811	4,151	30 100 1	3,770	606 2,218	& 893 53	Modifications	1 1	NOCO19-68-C-0083
			"- & >		5. 1%		17.9%	2.8%	10.1%		@ \$3.65 345.0%		Rate		-C-0083
			\$4,988,956	5,593 892	734	4,859	4,121 738	4,009 112	368	3,641	606 2,091	₩ ₩ ₩	contract	GAO calculated	
			\$4,942,938	5,761 858	734 168	4,859	4,121 738	4,009 112	368	3,641	606 2,091	s 893 51	Modifications	llated	
	\$	\$ \$ 5	\$2 #2		16.6% 3.0%		19.0%	2.8%	10.1%		@ \$3.65 366.0%	185 hrs	Rate		
	223,096	\$5,196,168 4,973,072	\$2,532,360	6,735 376	961	5,774	4,852 922	4,720 132	433	4,287	675 2,470	1,078	contract	Negot	
			\$2,663,808	6,937 384	961 202	5,774	4,852 922	4,720 132	433	4,287	675 2,470	\$ 1,078 64	Modifications	Negotiated	N00019-
					16.6%		17.9%	2.8%			@ \$3.65 345.0%	185 hrs	Rate		N00019-68-C-0088
			\$ <u>2,423,696</u>	6,446 376	9 1 H	5 52 8	4,689 839	4,561 128	\$________________\	4,143	2,329	\$ 5078	contract	GAO calculated	
			\$2,549,376	6,639 384	918 193	5,528	4,689 839	4,561 128	410	4,143	675 2,329	\$ 1,078 61	Modifications	lated	

INCREASED PRICES ATTRIBUTABLE TO USE OF

NONCURRENT DATA FOR CHANGES FROM BUY TO MAKE ADJUSTMENTS

CONTRACT THERESE	Total effect, increase (decrease)	ation 1969 Oty.	Profit 15.1% -0083 16.6% -0088	Subtotal	Operating expense 19%	Subtotal	Inventory loss 2.8%	Subtotal	Applied production cost 10.1%	Subtotal	Material handling 5.9% Burden 366%	Subtotal	Waterial escalation-3% increase -0083 3% decrease -0088	Total	Ouantity procured	increase, (decrease)	work orders Effect on negotiated price	Sundstrand's adjustment-increase (decrease) Adjustment as shown by representative	
	\$(28,658)	0	(3,760)	(24,898)	(3,975)	(20,923)	(570)	(20, 353)	(1,867)	(18,486)	(1,030)	\$(17,456)	(508)	\$(16,948)	892	(19)	(158)	\$ (177)	Basic
\$36,597	\$47,045	1	6,172	40,873	6,526	34,347	936	33,411	3,065	30,346	23,834	\$ 6,512	1 1	\$ 6,512	(2 hrs.@\$3.65) 892	\$7.30	6 hrs.	8 hrs.	NOO019-68-C-0083
7	\$(28, 393)	(827)	(3,616)	(23,950)	(3,824)	(20,126)	(548)	(19,578)	(1,796)	(17,782)	(991)	\$(16,791)	(4.89)	\$(16,302)	858 858	(19)	(158)	\$ (177)	Modifications Material
	\$46,603	1,357	5,936	39,310	6,276	33,034	900	32,134	2,948	29,186	22,923	\$ 6,263	1 1	\$ 6,263	(2 hrs.@\$3.65) 858	\$7.30	6 hrs.	o Ps.	s 7,8,6 9 Labor
	\$3,638	1 1-00	1	3,120	498	2,622	71	2,551	234	2,317	129	\$2,188	(68)	\$2,256	(3 376	6	336	\$ 342	Basic contract Material Lab
\$69,292	\$30,129	4,269		25,840	4,126	21,714	591	21,123	1,938	19,185	15,068	\$ 4,117	8 0	\$ 4,117	(3 hrs.@\$3.65) 6 376	\$10.95	21 hrs.	24 hrs.	20019
292	\$3,829	12 12 12		3,188	509	2,679	3	2,606	239	2,367	132	\$2,235	(69)	\$2,304	384	♂	336	\$ 342	N00019-68-C-0088 ct Modifications Abor Material
	\$31,696	4,381 923		26,392	4,214	22,178	604	21,574	1,979	£9,595	15,390	\$ 4,205	1 1	\$ 4,205	(3 hrs.@ \$3.65) 384	\$10.95	21 hrs.	24 hrs.	s & options Labor
\$105,889																			Total increased price

INCREASED COSTS ATTRIBUTABLE TO

APPLICATION OF IMPROPER LABOR AND BURDEN RATES

CONTRACT NOO019-67-C-0176

Increased costs to Government	Total negotiated GAO calculated	Units	Unit selling price	Profit 11.47%	Subtotal	G & A 17.08%	Subtotal	Inventory losses 2.1%	Subtotal	Burden variation 4.12%	Subtotal	Applied production cost 11.58%	Subtotal	Direct labor 151 hrs @ \$3.44 Burden 323.7%	Material handling 6.89%	Subtotal	Negotiated material Escalation factor 2.3%	Rate	31
\$ 187,668	\$5,894,700 5,707,032	1,203	\$ 4,900	505	4,395	641	3,754	77	3,677	1.45	3,532	367	3, 165	1,682	62	902	\$ 881 21	Amount	30000± 0+01
				11.47%		17.08%		2		6.60%		1 1 16%		151 hrs (7.19%		2	Rate	
	\$5,707,032	1,203	\$ 4,744	488	<i>*</i> , 256	621	ა გივე	75	3,560	220	3, 3¢0	335	3 ₀ 005	@ \$3.36 507 1,531	65	902	\$ 881 21	Amount	* 9 5 5 5 4 4 T 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1